



STIC Search Report

EIC 3600

STIC Database Tracking Number: 94803

**TO: Patricia Volpe
Location: 8A03
Art Unit : 3600
Tuesday, October 05, 2004**

Case Serial Number: 10/657060


**From: Etelka Griffin
Location: EIC 3600
PK5-Suite 804
Phone: 308-4211**

Etelka.griffin@uspto.gov

Search Notes

LITIGATION SEARCH

#6546830

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#) 

Terms: **patno=6546830** ([Edit Search](#))

951765 (09) 6546830 April 15, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6546830

◆ [Get Drawing Sheet 1 of 6](#)

[Access PDF of Official Patent](#) *

[Check for Patent Family Report PDF availability](#) *

* Note: A transactional charge will be incurred for downloading an Official Patent or Patent Family Report. Your acceptance of this charge occurs in a later step in your session. The transactional charge for downloading is outside of customer subscriptions; it is not included in any flat rate packages.

[Link to Claims Section](#)

April 15, 2003

Transmission device of four-wheel drive vehicle

INVENTOR: Kanazawa, Kazuo - Tokyo, Japan (JP)

APPL-NO: 951765 (09)

FILED-DATE: September 13, 2001

GRANTED-DATE: April 15, 2003


ASSIGNEE-AT-ISSUE: Fuji Jukogyo Kabushiki Kaisha, Tokyo, Japan (JP), 03

ASSIGNEE-AFTER-ISSUE: January 11, 2002 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS) ., FUJI JUKOGYO KABUSHIKI KAISHA 7- 2, NISHISHINJUKU 1-CHOME, SHINJUKU-KU TOKYO J APAN, Reel and Frame Number: 012472/0357

CORE TERMS: shaft, gear, drive, input, rear, driven, counter, driving force, reduction, transmitted ...

ENGLISH-ABST:

A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#) 

Terms: **patno=6546830** ([Edit Search](#))

View: **Custom**

Segments: [Abst](#), [Assignee](#), [Date](#), [Granted-date](#), [Inventor](#)

Date/Time: Tuesday, October 5, 2004 - 2:58 PM EDT

No Documents Found!*Patent, Trademark & Copyright
Periodicals, Combined*

No documents were found for your search (6546830 OR 6,546,830).
Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

[Edit Search](#)

[About LexisNexis](#) | [Terms and Conditions](#)

[Copyright © 2004 LexisNexis](#), a division of Reed Elsevier Inc. All rights reserved.

No Documents Found!

No documents were found for your search (6546830 OR 6,546,830).
Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

[Edit Search](#)

[About LexisNexis](#) | [Terms and Conditions](#)

[Copyright © 2004 LexisNexis](#), a division of Reed Elsevier Inc. All rights reserved.

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

Patent Number :

US2002066324 A1 20020606 [US20020066324]

Patent Number 2 :

US6546830 B2 20030415 [US6546830]

Title :

(A1) Transmission device of four-wheel drive vehicle

Patent Assignee :

(A1) FUJI HEAVY IND LTD (JP)

Patent Assignee 2 :

Fuji Jukogyo Kabushiki Kaisha, Tokyo [JP]

Patent Assignee 2 :

(B2) FUJI HEAVY IND LTD (JP)

Inventor(s) :

(A1) KANAZAWA KAZUO (JP)

Application Nbr :

US95176501 20010913 [2001US-0951765]

Priority Details :

JP2000280602 20000914 [2000JP-0280602]

Intl Patent Class :

(A1) F16H-037/00 F16H-037/16

EPO ECLA Class :

B60K-017/344

B60K-017/35B1

B60K-023/08B

US Patent Class :

CROSS-REFERENCE (X) : 074333000

Document Type :

Corresponding document

Citations :

US4208923; US5123293; US5640882; US5947218; US6044720; US6332371;

JP7-167257; JP362178429

Publication Stage :

(A1) Utility Patent Application published on or after January 2, 2001

Publication Stage 2 :

(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

Abstract :

A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

Update Code :

2002-25

1 / 1 LGST - ©EPO

Patent Number :

US2002066324 A1 20020606 [US20020066324]

US6546830 B2 20030415 [US6546830]
Application Number :
US95176501 20010913 [2001US-0951765]
Action Taken :
20031216 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030908
Update Code :
2004-03

1 / 1 CRXX - ©CLAIMS/RRX
Patent Number :
6,546,830 A 20030415 [US6546830]
Patent Assignee :
Fuji Jukogyo K K JP
Actions :
20030908 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20031216
REISSUE REQUEST NUMBER: 10/657060
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3681

Reissue Patent Number:

1 / 1 INPADOC - ©INPADOC
Patent Number :
US 6546830 BB 20030415 [US6546830]
Title :
TRANSMISSION DEVICE OF FOUR-WHEEL DRIVE VEHICLE
Inventor(s) :
KANAZAWA KAZUO [JP]
Patent Assignee (Words) :
FUJI HEAVY IND LTD [JP]
Application Details :
US 951765/01-A 20010913 [2001US-0951765]
Priority Details :
JP 2000280602/00-A 20000914 [2000JP-0280602]
Intl. Patent Class. :
F16H-037/06; F16H-003/08

1 / 1 LGST - ©EPO
Patent Number :
US2002066324 A1 20020606 [US20020066324]
US6546830 B2 20030415 [US6546830]
Application Number :
US95176501 20010913 [2001US-0951765]
Action Taken :
20031216 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030908
Update Code :
2004-03